

Figure S1. Synthetic *NDUFAF3* gene (Cre12.g496800) of *C. reinhardtii*.

A. Nucleotide sequence (<https://phytozome-next.jgi.doe.gov/> *Chlamydomonas reinhardtii* v5.6). Grey background: promoter region; yellow background: 5' and 3'UTR; blue background: coding sequence; green letters: first intron of RBCS2; underlined in bold and black: **ATG** (start codon), **TGA** (stop codon), and putative polyadenylation site (**TGTAA**); in bold and italics: *PstI* (**CTGCAG**) and *XbaI* (**TCTAGA**) restriction sites. The 3xFLAG addition is underlined in blue. **B.** Amino acid sequence of the NDUFAF3 protein. The 3xFLAG sequence is in bold.

A.

---NdeI---

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TCTCGCGCTAGCCCACTGCGGTCGGTCCCCTGGTCTACTAAGTTTGTAAATGTGATTAAACACAACTGGAGTAGGACACCAAATTGACCCAAGCTGT
GTATGGCGGAGACAACACGATTTTGC GCGATGGCTCCATCCCGGCAAACCTCGCTCTTGTGTGCTCAAAGTTTCTTATACTGCGTGTGCAACGTAAT
ACATACACCATGCGTCAAAGCTCCCTCTTGCTGGCTGGGTCACTAGGTCGCGCGCTTGTTCGGGGCGCACGTTGCCGAGCTCAGCGCAGCTACGCTAA
GCAGCCGAGCGGCATCGCTGCATACATGTGAAGCGTCTTGTTCCTCCCGCTGCACGGGCGCGGGCGCGCAGCAGCGGGCCAGCGCTGACCGGACAAAC
ATGGGGTGGGGCCGCTGCAACACCCACGACAGCGCGCAGCGCTGCACGCCGCCGGTCTCCAGCTCCAGTCGCGGCGGGGCGTACAGGGGTTTGACCGT
ATCGCAGAAACAGAGGCAGGCGAATTCATGGACTACAAGGACGACGATGACAAGGAATTCATGTCCAAAATGAGCGGCTATTACGCGGGCGGGT
TCTACATCAACAACGTACAGGTGAGTCGACGAGCAAGCCCGGCGGATCAGGCAGCGTGCTTGAGATTTGACTTGCAACGCCCGCATTTGTGTCGACG
AAGGCTTTTGGCTCCTCTGTGCTGTCTCAAGCAGCATCTAACCTGCGTCGCGCTTTCCATTTGCAGGTGCCGGGCTCTGTGTTGGTGTGCGACGA
CATGTACTTCATGTGGCGCCCCCGCGCATCTCCGAGGTACGCCCGACAGCCTGATGCTGCTGGAGGTGCTCAAGCCCGCGCCTGAGGTGCTGGTG
TTGGGCACAGGCGCCACGCCGAGAAGCTGCCGCCGGCGGTGCGCGAGTACCTGCAGCGGCTGGGCATGCGCGTGGAGGTGCTGGACAGCCGCAACG
CCACCGGCTACTTCAACGTGCTCAATGACGAGGGCCGCGCGTGGTGGGCGCGCTGCTAGTGGCGGACCCGAGGCGCGCATGCCGAGAACCTGCC
AGACGCGCAGGAGCCGCTGTGGGACCGCGCCCGCTCATGCAGCGCAGCGGCACCATCGACTACAAGGACCAGCAGCGGTGACTACAAGGATCAGCAG
ATCGACTACAAGGATGATGACGATAAGTGAAGGCGGGAGGAGGGAGGTGGAGGAGGGGCTGGAGGAGGGAGTGCATGAGGGGGTGCATGAGGGCA
CTGGTTGGGGTTGAGGGGCGGCTTCGGGCAGGCCAGAGTGGTTCGCTGGGAGCAGTGAAGGTGGGGGCGAAGGCAACGTGGAAATAGGAATGTGCAGC
TAGGGTGCAGAGGCCAGGGCGGGTCATGGGTGAGCACATGGAGCAATGGGCACTGGGCGGCGAGGTGCAACACCCAGAACACAGCAGGAAATA
CGGCCCTTCTGCTCTTCGGCAGCGGTGGCGGAAGTGGCGCAGGCGGCGACACCACCGATGTGCGCAAGTTGGAGCTGCGGGTCTGTTGATGAA
GCACGAGGCGATGGAGGGCGTGTGTCTGGGTGGATTGTAAAGGGGAAGGATTAGGGACAGCGGATGCAGAAAGGGCAGCTTCTCTAGTTTCTCCG
GTGCTGGTGGGTGACAGACTGGCTGGAGCACCTCTAGA
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B.

NDUFAF3-3xFLAG

MSKMSGYYAGGFYINNVQVPGSVLVSHDMYFMWRPRRISEVTPDSLMLLEVLPKPAPEVLVLGTGATPQK
LPPAVREYLQRLGMRVEVLDSRNATGYFNVLNDEGRAVVGALLVADPEARMPENLPDAQEPLWDRAPL
MQRSGTIDYKDHDGDYKDHDIDYKDDDDK